

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended): An image-forming apparatus supervising system with a plurality of data communication apparatuses each connected with at least one image-forming apparatus which contains usage information and a central control apparatus connected with said plurality of data communication apparatus via a communication line, said system configured to supervise said at least one image-forming apparatus via the communication line and the plurality of data communication apparatus, said system comprising:

a usage information transmitting device included in the data communication apparatus, said usage information transmitting device being configured to receive and transmit said usage information periodically from said at least one image-forming apparatus to the central control apparatus, said usage information being related to usage career information of the image forming apparatus;

an apparatus list generating device configured to generate an apparatus list indicating ~~which of the~~ at least one image-forming apparatuses and plurality of data communication apparatuses from which having said usage information is to be obtained;

a first obtaining operation executing device configured to execute a first obtaining operation for obtaining said usage information from said at least one image-forming apparatus and plurality of data communication apparatuses, said usage information transmitted through at least one of the plurality of data communication apparatuses ~~after the apparatus list is generated;~~

a confirming device configured to confirm which of the plurality of data communication apparatuses and the at least one image-forming apparatus ~~have~~ maintain not-yet-obtained usage information, ~~by comparing~~, after the first obtaining operation is executed by comparing the resulting of the first obtaining operation, a list of the image-forming apparatuses which transmitted with the apparatus list;

a. a not-yet-obtained list generating device configured to generate a not-yet-obtained list indicating which of the plurality of data communication and the at least one image-forming apparatus ~~have~~ maintain said not-yet-obtained usage information based upon the confirmation; and

a second obtaining operation executing device configure to execute a second obtaining operation for obtaining said usage information from the at least one image-forming apparatus and the plurality of data communication apparatuses ~~with said not yet obtained usage information~~ by accessing the at least one image-forming apparatus and the plurality of data communication apparatuses based on the not-yet-obtained list ~~generated by the not yet obtained list generating device.~~

2. (Original): An image forming apparatus supervising system according to claim 1, wherein said usage information transmitting device is provided in the data communication apparatus.

3. (Original): An image forming apparatus supervising system according to claim 1, wherein said apparatus list generating device is provided in the central control apparatus.

4. (Original): An image forming apparatus supervising system according to claim 1, wherein said usage information includes a total number of image formed sheets.

5. (Original): An image forming apparatus supervising system according to claim 1, wherein said first obtaining operation executing device is provided in the central control apparatus.

6. (Original): An image forming apparatus supervising system according to claim 1, wherein said confirming device is provided in the central control apparatus.

7. (Original): An image forming apparatus supervising system according to claim 1, wherein said not-yet-obtained list generating device is provided in the central control apparatus.

8. (Original): An image forming apparatus supervising system according to claim 1, wherein said second obtaining operation executing device is provided in the central control apparatus.

9. (Original): An image forming apparatus supervising system according to claim 1, wherein said usage information transmitting device transmits said usage information by generating a self-call and when the data communication apparatus is accessed by the central control apparatus.

10. (Original): An image forming apparatus supervising system according to claim 1, wherein said usage information transmitting device transmits at a predetermined time and information of said predetermined time is stored in the central control apparatus.

11. (Original): An image forming apparatus supervising system according to claim 1, wherein said confirming device includes a not-yet-obtained usage information second confirming device configured to compare, after execution of the second obtaining operation, the list of image-forming apparatuses which transmitted with the not-yet-obtained list and confirm which data communication and image-forming apparatuses have said not-yet-obtained usage information, said not-yet-obtained usage information list generating device including a not-yet-obtained information list regenerating device configured to regenerate the not-yet-obtaining information list indicating which data communication and image-forming apparatuses have said not-yet-obtained usage information, and

wherein said second obtaining operation executing device executes another second obtaining operation after a predetermined time has elapsed if, after execution of the second obtaining operation, at least one data communication or image-forming apparatus with said not-yet-obtained usage information is confirmed.

12. (Original): An image-forming apparatus supervising system according to claim 11, wherein, said central control apparatus includes a usage information obtaining-impossible-list generating device configured to generate a usage information obtaining-impossible-list indicating that at least one data communication or image-forming apparatus has said not-yet-obtained usage information even though a predetermined number times of the second obtaining operations have been executed by the second obtaining operation executing device.

13. (Original): An image forming apparatus supervising system according to claim 12, wherein a display of the central control apparatus displays information of said obtaining-impossible-list.

14. (Original): An image-forming apparatus supervising system according to claim 12, wherein the central control apparatus transmits obtaining-impossible-list to at least one of a sales person and a service person in charge of the image-forming apparatus having said not-yet-obtained usage information.

15. (Original): An image-forming apparatus supervising system according to claims 1 or 11, further comprising:

Q1 a bill-submitting-device configured to submit a bill based on a difference in usage information obtained between a preceding and current number of image-formed sheets.

16. (Original): An image-forming apparatus supervising system according to claim 15, wherein said bill submitting device does not submit the bill if the difference is abnormal.

17. (Currently Amended): An image-forming apparatus supervising system according to claim 16, wherein said abnormal difference ~~includes a case when a usage value obtained is a prescribed number of times of~~ represents that the current number is prescribed times as much as an average value calculated by averaging total usage information of users.

18. (Currently Amended): An image-forming apparatus supervising system with a plurality of data communication apparatuses each connected with at least one image-forming apparatus which contains usage information and a central control apparatus connected with said plurality of data communication apparatus via a communication line, said system configured to supervise said at least one image-forming apparatus via the communication line and the plurality of data communication apparatus, said system comprising:

means for receiving and transmitting said usage information ~~periodically~~ from said at least one image-forming apparatus to the central control apparatus, said means for receiving and transmitting included in the data communication apparatus and said usage information being related to usage career information of the image forming apparatus;

means for generating an apparatus list indicating ~~which of the~~ at least one image-forming apparatuses and plurality of data communication apparatuses ~~contain~~ from which usage information ~~to be transmitted in a predetermined day~~ is to be obtained;

Q a first means for obtaining said usage information from said at least one image-forming apparatus and plurality of data communication apparatuses, said usage information transmitted through at least one of the plurality of data communication apparatuses ~~after the apparatus list is generated;~~

means for confirming which of the plurality of data communication apparatuses and the at least one image-forming apparatus ~~have~~ maintain not-yet-obtained usage information, confirmation occurs ~~by comparing~~, after the first obtaining operation is executed by comparing the result of the first obtaining operation, ~~a list of the image-forming apparatuses which transmitted~~ with the apparatus list;

means for generating a not-yet-obtained list indicating which of the plurality of data communication and the at least one image-forming apparatus ~~have~~ maintain said not-yet-obtained usage information based upon the confirmation; and

a second means for obtaining said usage information from the at least one image-forming apparatus and the plurality of data communication apparatuses ~~with said not-yet-obtained usage information~~ by accessing the at least one image-forming apparatus and the plurality of data communication apparatuses based on the not yet obtained list ~~generated by the not yet obtained list generating device.~~

19. (Original): An image forming apparatus supervising system according to claim 18, wherein said means for transmitting usage information is provided in the data communication apparatus.

20. (Original): An image forming apparatus supervising system according to claim 18, wherein said means for generating an apparatus list is provided in the central control apparatus.

21. (Original): An image forming apparatus supervising system according to claim 18, wherein said means for transmitting usage information transmits a total number of image formed sheets.

22. (Original): An image forming apparatus supervising system according to claim 18, wherein said first means for obtaining said usage information is provided in the central control apparatus.

23. (Original): An image forming apparatus supervising system according to claim 18, wherein said means for confirming is provided in the central control apparatus.

24. (Original): An image forming apparatus supervising system according to claim 18, wherein said means for generating a not-yet-obtained list is provided in the central control apparatus.

25. (Original): An image forming apparatus supervising system according to claim 18, wherein said second means for obtaining said usage information is provided in the central control apparatus.

26. (Original): An image forming apparatus supervising system according to claim 18, wherein said means for transmitting usage information transmits said usage information by generating a self-call and when the data communication apparatus is accessed by the central control apparatus.

Q1 27. (Original): An image forming apparatus supervising system according to claim 18, wherein said means for transmitting usage information transmits at a predetermined time and information of said predetermined time is stored in the central control apparatus. .

28. (Original): An image forming apparatus supervising system according to claim 18, wherein said means for confirming includes means for generating a not-yet-obtained usage information list by comparing , after execution of the second obtaining operation, the list of image-forming apparatuses which transmitted with the not-yet-obtained list and confirming which data communication and image-forming apparatuses have said not-yet-obtained usage information, said means for generating a not-yet-obtained usage information list including a means for regenerating the not-yet-obtaining usage information list indicating which data communication and image-forming apparatuses have said not-yet-obtained usage information, and

wherein said second means for obtaining said usage information executes another second obtaining operation after a predetermined time has elapsed if, after execution of the

second obtaining operation, at least one data communication or image-forming apparatus with said not-yet-obtained usage information is confirmed.

29. (Original): An image-forming apparatus supervising system according to claim 28, wherein said central control apparatus includes means for generating a usage information obtaining-impossible-list indicating that at least one data communication or image-forming apparatus has said not-yet-obtained usage information even though a predetermined number times of the second obtaining operations have been executed by the second means for obtaining usage information.

30. (Original): An image forming apparatus supervising system according to claim 29, wherein a display of the central control apparatus displays information of said obtaining-impossible-list.

31. (Original): An image-forming apparatus supervising system according to claim 29, wherein the central control apparatus transmits obtaining-impossible-list to at least one of a sales person and a service person in charge of the image-forming apparatus having said not-yet-obtained usage information.

32. (Original): An image-forming apparatus supervising system according to claims 18 or 28, further comprising:

means for billing based on a difference in usage information obtained between a preceding and current number of image-formed sheets.

33. (Original): An image-forming apparatus supervising system according to claim 32, wherein said means for billing does not submit the bill if the difference is abnormal.

34. (Currently Amended): An image-forming apparatus supervising system according to claim 33, wherein said abnormal difference ~~includes a case when a usage value obtained is a prescribed number of times of~~ represents that the current number is prescribed times as much as an average value calculated by averaging total usage information of users.

Q 35. (Currently Amended): A method for supervising a system of image-forming apparatuses with a plurality of data communication apparatuses each connected with at least one image-forming apparatus which contains usage information and a central control apparatus connected with said plurality of data communication apparatus via a communication line, said system configured to supervise said at least one image-forming apparatus via the communication line and the plurality of data communication apparatus, comprising the steps of:

periodically receiving and transmitting said usage information from said at least one image-forming apparatus to the central control apparatus, said receiving and transmitting occurring in the data communication apparatus and said usage information being related to usage career information of the image forming apparatus;

generating an apparatus list indicating ~~which of the~~ at least one image-forming apparatuses and plurality of data communication apparatuses ~~contain~~ from which said usage information to be transmitted in a predetermined day is to be obtained;

obtaining said usage information from said at least one image-forming apparatus and plurality of data communication apparatuses, said usage information transmitted through at

least one of the plurality of data communication apparatuses ~~after the apparatus list is generated;~~

confirming which of the plurality of data communication apparatuses and the at least one image-forming apparatus ~~have~~ maintain not-yet-obtained usage information, ~~by comparing,~~ after the first obtaining operation is executed by comparing the resulting of the first obtaining operation, ~~a list of the image-forming apparatuses which transmitted with the apparatus list;~~

generating a not-yet-obtained list indicating which of the plurality of data communication and the at least one image-forming apparatus ~~have~~ maintain said not-yet-obtained usage information based upon the confirmation; and

re-obtaining said usage information from the at least one image-forming apparatus and the plurality of data communication apparatuses ~~with said not yet obtained usage information~~ by accessing the at least one image-forming apparatus and the plurality of data communication apparatuses based on the not yet obtained list ~~generated by the not yet-obtained list generating device.~~

36. (Original): A method according to claim 35, wherein the step of transmitting said usage information is provided in the data communication apparatus.

37. (Original): A method according to claim 35, wherein the step of generating an apparatus list is provided in the central control apparatus.

38. (Original): A method according to claim 35, wherein the step of transmitting said usage information transmits a total number of image formed sheets.

39. (Original): A method according to claim 35, wherein said step of obtaining said usage information is provided in the central control apparatus.

40. (Original): A method according to claim 35, wherein said step of confirming is provided in the central control apparatus.

41. (Original): A method according to claim 35, wherein said step of generating a not-yet-obtained list is provided in the central control apparatus.

42. (Original): A method according to claim 35, wherein said step of re-obtaining said usage information is provided in the central control apparatus.

43. (Original): A method according to claim 35, wherein said step of transmitting said usage information occurs by generating a self-call and when the data communication apparatus is accessed by the central control apparatus.

44. (Original): A method according to claim 35, wherein said step of transmitting said usage information occurs at a predetermined time and information of said predetermined time is stored in the central control apparatus .

45. (Original): A method according to claim 35, wherein said step of confirming further comprises the steps of:

generating a not-yet-obtained usage information list by comparing, after the re-obtaining step, the list of image-forming apparatuses which transmitted with the not-yet-obtained list and confirming which data communication and image-forming apparatuses

have said not-yet-obtained usage information, said step of generating the not-yet-obtained usage information list including regenerating the not-yet-obtaining usage information list indicating which data communication and image-forming apparatuses have not-yet-obtained usage information, and

wherein said step of re-obtaining said usage information occurs again after a predetermined time has elapsed if, after execution of the second obtaining operation, at least one data communication or image-forming apparatus with said not-yet-obtained usage information is confirmed.

Q. 46. (Original): A method according to claim 45, further comprising the step of:
generating a usage information obtaining-impossible-list indicating that at least one data communication or image-forming apparatus has said not-yet-obtained usage information even though a predetermined number times of the second obtaining operations have been executed.

47. (Original): A method according to claim 46, further comprising the step of:
displaying said obtaining-impossible-list on a display of the central control apparatus.

48. (Original): A method according to claim 46, further comprising the step of:
sending said obtaining-impossible-list to at least one of a sales person and a service person in charge of the image-forming apparatus having said not-yet-obtained usage information.

49. (Original): A method according to claims 35 or 45, further comprising the step of:

billing based on a difference in usage information obtained between a preceding and current number of image-formed sheets.

50. (Original): A method according to claim 49, wherein said step of billing does not submit the bill if the difference is abnormal.

51. (Currently Amended): A method according to claim 50, wherein said step of billing does not submit the bill if the abnormal difference ~~is a usage value which is a prescribed number of times of~~ represents that the current number is prescribed times as much as an average value calculated by averaging total usage information of users.